|        | index of Claims |            |          |          |                 |          |          |          |                |           |                              | 1          | Application/Control No. |        |   |              |          |          |              |             | Applicant(s)Patent under Reexamination |                 |            |           |          |                      |          |          |          |                    |           |       |   |   |
|--------|-----------------|------------|----------|----------|-----------------|----------|----------|----------|----------------|-----------|------------------------------|------------|-------------------------|--------|---|--------------|----------|----------|--------------|-------------|--|-----------------|------------|-----------|----------|----------------------|----------|----------|----------|--------------------|-----------|-------|---|---|
| - 1    |                 |            |          |          |                 |          |          |          |                | L         | Examiner                     |            |                         |        |   |              |          |          |              | NO NAME     |  |                 |            |           |          |                      |          | - ••     |          |                    |           |       |   |   |
| • •    |                 |            |          |          |                 |          |          |          |                |           |                              |            |                         |        |   | xa           | mlı      | ner      | **           |             |  |                 |            |           | Ar       | t Ui                 | neit 4   |          | •        | 1                  |           |       |   |   |
|        |                 | TUEL       |          | I CORN   | · ·             | im f     | 1111     | HW       | 14184          | 8841      | <b></b>                      |            |                         |        |   | **           |          | _        |              |             |  |                 | ٠.         | Ŀ         |          |                      |          |          |          |                    |           |       |   |   |
|        |                 |            |          | <u>·</u> | _               |          | 1        |          | _              | _         | /Th -                        |            |                         |        | 01                                      |              | 1        |          |              |             |  |                 |            |           |          |                      | ·<br>    | <u>.</u> |          | 1                  |           |       |   | - |
|        | •               |            |          | Rejected |                 |          |          |          | -              |           | (Through numera<br>Cancelled |            |                         |        | rai)                                    | <b>a</b> 1)  |          | N        | Non-Ele      |             | lec                                    | ted             |            | A         |          | Appeal               |          |          |          |                    | •         | •     |   |   |
|        |                 |            |          | Aller    |                 |          | 1        |          |                | ┢         |                              |            |                         |        |   |              | † ·      | H        |              | <del></del> |  | ·               | ı          | Н         |          |                      |          |          |          | ł                  |           |       |   |   |
|        |                 |            | =        | Allowed  |                 |          |          |          | *              |           |                              | Restricted |                         |        |   |              |          | ľ        | Interference |             | nce                                    |                 | 0          | •         | Objected |                      |          |          |          |                    |           |       |   |   |
|        | Claim           |            |          |          |                 | Dat      | <u>.</u> |          | _              | ,         | Г                            | Claim      |                         |        |   |              |          |          |              |             | ٦                                      | Claim           |            |           |          |                      |          | _        |          |                    |           |       |   |   |
|        |                 |            |          | -        | ֓֡֡֞֞֞֜֡֡       | Г        | rtt.     |          | $\cdot \Gamma$ |           |                              |            | Т                       | Т      | Date                                    | <del>"</del> |          |          | 1            |             |  | Н               | Oate       |           |          |                      | Ü        | ń        | $\dashv$ | •                  |           | ٠.    |   |   |
|        | Fina            | -)Original |          |          |                 |          |          |          |                |           | 1                            |            |                         |        |   |              |          |          | ı            |             |  | Final           | Original   |           |          |                      |          |          | ١.       |                    |           |       |   |   |
|        |                 | Š          |          |          |                 |          | ŀ        |          |                | Ш         | L                            | ·   è      |                         |        |   |              |          |          |              |             |  | L               | δ          |           |          |                      |          | İ        |          |                    |           | ٠     |   |   |
|        | 匚               | Q.         |          | $\mp$    | Ŧ               |          |          |          |                | П         | F                            | 5          |                         | Ţ      | Ţ                                       | L            | П        | П        | コ            | 7           | 7                                      |                 | 101        | П         | #        | #                    | I        |          |          |                    | $\Box$    |       |   |   |
|        |                 | 1          | Н        | +        | +               | ┝        | H        | Н        |                | Н         | $\vdash$                     | 5          |                         | ╁      | ╁                                       | H            | Н        | H        | ┪            | ┿           | 1                                      | $\vdash$        | 102        | Н         | +        | ╁                    | ╁        | ┝        | ┝        | Н                  | $\dashv$  |       |   |   |
|        |                 | I          |          |          | T               |          |          |          |                |           |                              | 5          | 4                       | 1      | ľ                                       | Γ            | $\Box$   | 口        | コ            | 1           | 1                                      |                 | 104        |           | 1        | 土                    | 上        |          |          |                    | ゴ         | -     |   |   |
|        | $\vdash$        | 5          | Н        | +        | ╁╌              | H        | H        | H        | Н              | Н         | -                            | 5          |                         | ┿      | ╀                                       | ┝            | Н        | Н        | -+           | ÷           | ┨                                      | $\vdash$        | 105        | Н         | ╀        | ┿                    | ╀        | <u>-</u> | ┞        | Н                  | -         |       |   |   |
|        |                 | (1)        |          | 二        | 工               |          |          |          | Ш              |           |                              | 5          | 7                       |        | 上                                       |              |          |          |              | 土           | 1                                      |                 | 107        |           | 士        | 士                    | 士        | t        | Ė        |                    | $\exists$ |       |   |   |
|        |                 | H          | Н        | +        | ╀               | $\vdash$ | H        | Н        | Ш              | H         | -                            | 5          |                         | +      | ╀                                       | -            | Н        | Н        | $\dashv$     | +           | ┨                                      | $\vdash$        | 108<br>109 | Н         | 4        | $\bot$               | L        | $\vdash$ |          | П                  | $\Box$    | •     |   |   |
|        |                 | <b>b</b> . |          | 土        | 上               |          |          |          | _              | H         |                              | 6          | 7                       | 土      | t                                       |              | Н        | $\dashv$ | $\exists$    | 士           | 1                                      |                 | 110        | Н         | $\pm$    | +                    | ╁        | ┝        | Н        | Н                  | $\dashv$  |       |   |   |
|        |                 | (iv        |          | $\perp$  | L               |          | П        |          |                | $\Box$    |                              | 6          |                         | Ŧ      | L                                       |              |          | П        | $\Box$       | Ţ           | ]                                      |                 | 111        | $\Box$    | 7        | I                    | Г        |          |          |                    | $\Box$    |       |   |   |
|        | Н               | 12<br>18   | Н        | +        | ╁               | Н        | Н        | Н        | Н              | Н         | $\vdash$                     | 6          |                         | ┿      | ┾                                       | -            | Н        | H        | ┪            | ┿           | ┨                                      | H               | 112<br>113 | Н         | +        | ╁                    | ┝        | ┝        | Н        | Н                  | $\dashv$  |       |   |   |
|        |                 | 15         | 口        | 1        | 上               |          |          |          |                |           |                              | 6          | 1                       |        | I                                       |              |          |          | 1            | 工           | 1                                      |                 | 114        |           | 士        |                      |          |          |          |                    | ゴ         |       |   |   |
|        |                 | 16         | Н        | +        | ╀               | Н        | Н        | Н        | Н              | $\dashv$  | $\vdash$                     | 6          |                         | +-     | ╀                                       | ⊢            | Н        | $\dashv$ | +            | +           | ┨                                      | $\vdash$        | 115        | $\Box$    | -        | ╀                    |          | L        | Н        | $\vdash$           | $\exists$ |       |   |   |
| •      |                 | 17         |          | 士        | $oldsymbol{	o}$ | Ħ        |          |          |                |           | Ŀ                            | 6          |                         | 土      | $\vdash$                                | $\vdash$     | Ħ        | ╛        | $\pm$        | 士           | 1                                      |                 | 117        |           | $\pm$    | 1                    |          | Ė        | Н        | Н                  | $\dashv$  |       | • |   |
| •      |                 | 18         | П        | 7        | F               | П        | Π        | Н        |                | $\Box$    |                              | 6          |                         | Ţ      | L                                       |              | П        | 4        | $\exists$    | Ŧ           | ]                                      | $\Box$          | 118        | $\Box$    | Ŧ        | Ţ                    |          |          |          | П                  | $\exists$ |       |   |   |
|        | Н               | 20         | Н        | +        | +               | Н        | H        | Н        | $\dashv$       | $\dashv$  | $\vdash$                     | 70         |                         | ╁      | ╁.                                      | ļ.,          | Н        | $\dashv$ | +            | ╫           | 1                                      | $\vdash$        | 119        | $\dashv$  | ╁        | ╁                    | ╀        | Н        | Н        | Н                  | $\dashv$  |       | • |   |
|        |                 | 21         | 口        | 工        |                 | 口        |          |          |                | 口         |                              | 7          | $\Pi$                   |        | C                                       | $\Box$       |          |          | 7            | 丰           | 1                                      |                 | 121        |           | #        | 工                    | 匚        |          |          |                    | ⇉         |       |   | - |
|        | Н               | 23         | Н        | ┿        | +               | Н        | Н        | Н        |                | Н         | $\vdash$                     | 7:         |                         | ╁      | ┞                                       | Н            | $\vdash$ | $\dashv$ | +            | ╁           | ┨                                      | H               | 122        | $\dashv$  | +        | ╀                    | ┢        | H        | Н        | H                  |           |       |   |   |
|        |                 | 24         |          | 土        | 上               |          |          |          |                |           |                              | 74         |                         | 土      | L                                       |              | 口        | I        | 士            | 土           | 1                                      |                 | 124        |           | 土        | 土                    | 上        |          |          |                    | _         |       | • |   |
| •      |                 | 25·<br>26  | Н        | +        | ╀               | Н        | $\vdash$ | Н        | _              | Н         | -                            | 7:         | 1                       | ╀      | ┞                                       | Н            | Н        | $\dashv$ | -+           | +-          | 1                                      | Н               | 125<br>126 | -1        | 4        | ╀                    | ╀        | H        | Н        |                    | $\dashv$  |       | • |   |
|        | H               | 27         | Н        | +        | T               | H        | Н        | Н        |                | Н         | $\vdash$                     | 17         |                         | ╁      | H                                       | Н            | Н        | +        | +            | +           | 1                                      | $\square$       | 127        | -         | 士        | +                    | ┢        | Н        | Н        | Н                  | ┪         |       |   | • |
|        |                 | 28         | П        | 1        |                 |          |          |          |                |           |                              | 7          |                         | T      | Г                                       |              | $\Box$   | $\Box$   | Į            | T           | ]                                      |                 | 128        | $\Box$    | Ŧ        | Ţ                    | Г        |          |          | $\Box$             | $\Box$    |       |   |   |
| •      |                 | 29<br>30   | H        | +        | ╁               | Н        | Н        | Н        | -              | $\dashv$  | -                            | 7:         |                         | ╁      | ╁                                       | Н            | Н        | +        | ╅            | ╌           | 1                                      | $\vdash$        | 129<br>130 | $\dashv$  | ╅        | ╁                    | ╌        | $\vdash$ | H        | $\vdash$           | $\dashv$  |       |   |   |
|        |                 | 31         |          | 工        |                 |          |          |          |                | $\Box$    |                              | 8          |                         | 工      | L                                       |              |          |          | コ            | 丰           | 1                                      |                 | 131        | $\Box$    | 丰        | 丰                    |          |          |          |                    |           |       |   |   |
|        |                 | 32<br>33   | ⊢┤       | +        | +               | Н        | Н        | Н        | $\dashv$       | $\dashv$  | $\vdash$                     | 8          |                         | ╁      | ┞                                       | Н            | $\dashv$ | $\dashv$ | ┽            | ╫           | 1                                      | $\vdash$        | 132        | -         | +        | ╂                    | ⊢        | Н        | Н        | $\vdash$           | 4         |       |   |   |
|        |                 | 34         | Н        | +        |                 | $\Box$   |          |          |                | _         |                              | 18         | 什                       | ŀ      |   |              |          | 1        | $\pm$        | 土           | j ,                                    |                 | 134        | $\exists$ | 士        | 上                    |          |          |          |                    | _         |       |   |   |
|        |                 | 35         | П        | $\bot$   | $\perp$         |          |          |          |                | $\Box$    | · [_                         | 8          | <u> </u>                | T      | L                                       | Ц            | $\dashv$ | $\Box$   | 4            | 1           | } }                                    |                 | 135        | $\Box$    | _        | 1                    |          |          | П        | ij                 | $\Box$    |       |   |   |
|        | $\vdash \dashv$ | ·38        | ⊢        | ╫        | ╀╴              | Н        | Н        | 4        | -              | $\dashv$  | $\vdash$                     | 87         |                         | ╁      | H                                       | Н            | Н        | +        | +            | +           | ۱                                      | $\vdash$        | 136        | $\dashv$  | ╅        | ╫                    | H        | H        | H        | $\overline{\cdot}$ | $\dashv$  |       |   |   |
|        |                 | 38_        |          | 工        |                 |          |          |          |                |           |                              | 8          |                         | 上      | 匚                                       |              |          | $\Box$   | 1            | $\perp$     | 1                                      |                 | 138        | $\Box$    | Į.       | $oldsymbol{\square}$ |          | П        |          |                    |           |       |   |   |
|        | ┝╌╢             | 8          | Н        | ┿        | ╀┤              | H        | Н        | $\dashv$ | $\dashv$       | $\dashv$  | $\vdash$                     | 90         |                         | ╁      | H                                       | Н            | $\dashv$ | +        | ╅            | ╁           | 1                                      | $\vdash \vdash$ | 139        | -         | +        | ╁                    | $\vdash$ | H        | Н        | $\dashv$           | $\dashv$  |       |   |   |
|        |                 | 41         | $\Box$   | 士        |                 |          |          |          |                | $\exists$ |                              | 91         |                         | İ      |   |              |          | 1        | 士            |             | 1                                      |                 | 141        | 1         | 土        | 上                    |          |          |          |                    | _         |       |   | 1 |
|        |                 | 42         | $\Box$   | $\bot$   | $\Box$          |          |          |          | _              |           |                              | <u>∞</u>   |                         | $\bot$ | $\vdash$                                | Н            | $\Box$   | 4        | +            | $\bot$      | 1                                      |                 | 142        | 4         | 4        | $\perp$              | $\vdash$ | Τ        |          | 4                  | 4         |       |   | 1 |
|        | ├┼┤             | 43         | $\vdash$ | +        | +               | Н        | $\dashv$ | $\dashv$ | $\dashv$       | $\dashv$  | -                            | 94         |                         | 十      | $\vdash$                                | Н            | +        | _        | +            | 十           | 1                                      | ⊣               | 143        | +         | $\pm$    | 士                    | H        | Н        | Н        | +                  | $\dashv$  |       |   |   |
|        |                 | 45         |          | 1        | 口               | 口        | 耳        | 耳        | コ              | コ         |                              | 95         | ıΤ                      | Ţ      |   | 口            | 耳        | 7        | 7            | T           | 1                                      |                 | 145        | $\Box$    | I        | F                    | П        | П        | 口        | $\Box$             | コ         |       |   | . |
|        |                 | 45         | Н        | +        | ╁┤              | $\dashv$ | $\dashv$ | -        | -              | -         | $\vdash$                     | 90         | _                       | ╀      | ⊢                                       | Н            | $\dashv$ | +        | +            | +           | 1                                      | ├┼┤             | 145        | ╗         | ╅        | 十                    | Н        | Н        | Н        | $\dashv$           | $\dashv$  |       |   |   |
|        |                 | 48         | ╚        | 上        |                 | 日        |          |          | ╛              | ゴ         |                              | 98         | I                       | 士      |   |              | ⇉        | コ        | 土            | 工           | 1                                      |                 | 148        | コ         | 土        | I                    | 口        |          |          |                    | ゴ         |       |   |   |
|        | $\Box$          | 86         | Ц        | F        | $\vdash$        | Ц        | 4        | 4        | -              | -         | F                            | 10         |                         | F      | Н                                       | H            | 4        | +        | 4            | +           | l                                      |                 | 149<br>150 | -{        | +        | ╀                    | Н        | Н        | H        | $\dashv$           | 4         |       |   |   |
| 1      | الل             | 30         |          |          |                 |          |          |          | 1              |           | _                            | 110        | <u> </u>                | _      | لــــــــــــــــــــــــــــــــــــــ | ٧            |          |          | L            |             | , (                                    |                 | 130        | <u> </u>  |          |                      |          |          | نا       | _                  |           | •     |   |   |
| Detect |                 |            |          | . A.     |                 | _        |          |          |                |           | -                            |            |                         | _      | _                                       | _            |          |          |              | _           |  |                 |            |           |          |                      | _        |          |          | _                  |           | . 111 |   |   |